

SCREW-TYPE KNEADING/EXTRUDING MACHINE FOR ENHANCED REMOVAL OF
VOLATILE COMPONENTS OF THERMOPLASTIC SYNTHETIC RESIN MATERIAL

BACKGROUND OF THE INVENTION

1. Technical Field

The present invention relates to a screw-type kneading/extruding machine, and more specifically to a novel improvement for achieving enhanced deaeration performance by providing a screw piece with surface-renewing ability to a screw-type kneading/extruding machine to prevent polymer degradation without involving a temperature rise.

2. Description of the Related Art

Synthetic resin materials produced by chemical synthesis reaction generally contain a significant amount of volatile components remaining therein. When such a synthetic resin material containing a significant amount of volatile components is used, during various subsequent processing steps, air bubbles develop in the product being produced, resulting in a deterioration in the quality of the product, or the volatile components are volatilized to contaminate the working environment. In order to overcome this problem, devolatilization processing is conventionally performed